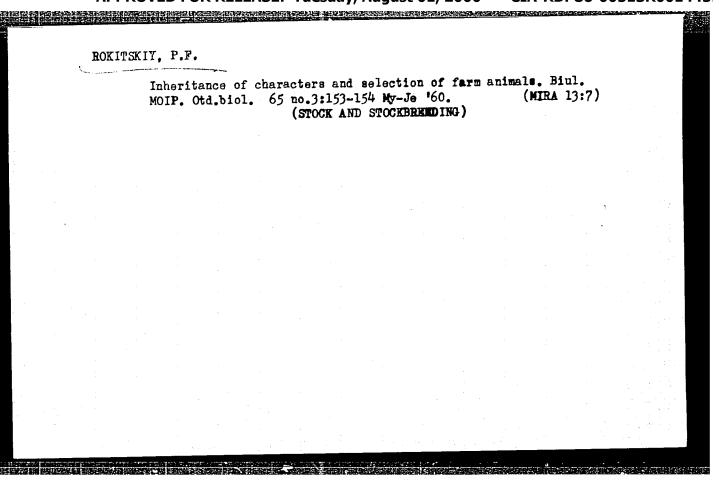
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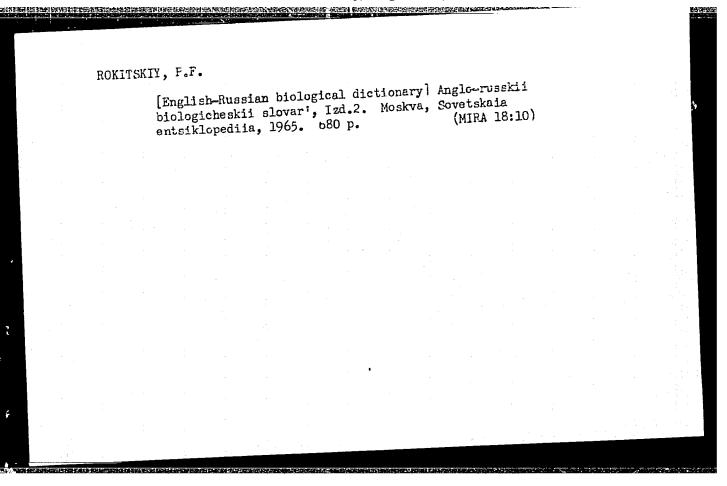
ROKITSKIY, Fetr Fomich, prof.; SHALKOVSKAYA, A., red.

[Biological statistics] Biologicheskaia statistika.

Minsk, Vysshaia shkola, 1964. 326 p. (MIRA 18:2)

ROKITSKIY, P.F.

Measures for intensifying the biometric training of the students of biology at the White Russian State University. Prim. mat. metod. v biol. no.2:18-20 63. (MIRA 16:11)



MOMITURIY, F.F., prof., red.; SEMMERNINA, I.M., prof., red.

[Scology of vertebrates in White Hussia] Ekologida zhivotnykh Belorussii. Minsk, Nauka i tekhnika, 1965, 213 p.
(MIRA 18:11)

1. Akmieniya navuk BSCR, Minsk, Addzel caalogii i paravitologid.

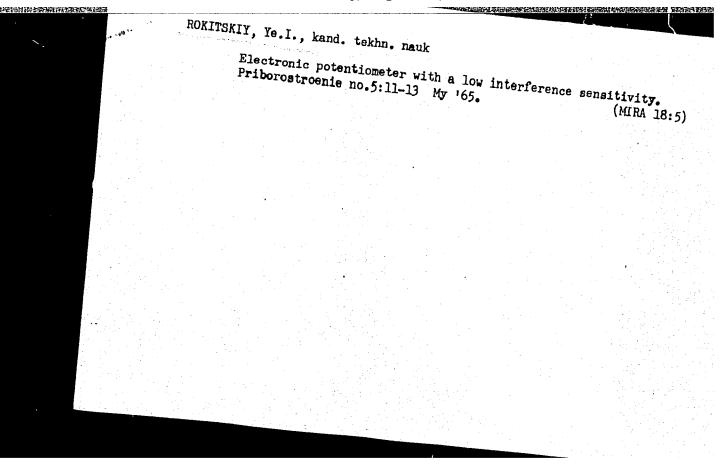
ROKITSKIY, Ye. I.

Tempering

Tempering inner, small diameter surfaces during high frequency current tempering under water. Vest. mash. 31, No. 12, 1951

Monthly List of Russian Accessions, Library of Congress, September 1952. Unclassified.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445



ROKITSKIY, Ye. Ye; STAVITSKIY, I.M.

Semiautomatic high-production unit for simultaneous cutting of chargers on several holes. Avt.prom. no.9:38-39 S 160. (MIRA 13:9)

1. Moskovskiy avtosavod imeni Likhacheva.
(Machine tools)

S/113/60/000/009/004/005 A002/A001

AUTHORS:

Rokitskiy, Ye. Ye., Stavitskiy, I. M.

TITLE;

A Highly Efficient Semi-Automatic Device for the Simultaneous

Chamfering of Several Holes

PERIODICAL: Avtomobil'naya promyshlennost', 1960, No. 9, pp. 38-39

TEXT: At the Moscow Automobile Plant imeni Likhachev, a semiautomatic universal device with automatic setting is used for the simultaneous chamfering of all holes in a flenge located perpendicular to a given plane (e.g. holes in the drive shaft flanges of ZIL automobiles). The device consists of standard components (Fig. 1) and is powered by an electric motor with a reducer. It can be easily converted for machining any other similar part. The device can be used for chamfering holes of up to 30 mm diameter, provided that the minimum distance between them is 45 mm. In case holes of more than 30 mm diameter must be chamfered, the mandrels holding the cutting tools must be exchanged against larger ones. All chamfers are cut of the same depth, regardless whether or not the surface in which the chamfers are located has been machined. Previously, the flenge holes were chamfered individually on a drilling machine, resulting

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S/113/60/000/009/004/005 A002/A001

A Highly Efficient Semi-Automatic Device for the Simultaneous Chamfering of Several Holes

in chamfers of different dimensions. The new device reduced the time required for chamfering the holes in one flange from 0.6-0.55 to 0.08 minutes. In addition, 8 m² floor space were saved owing to the elimination of the drilling machine. There are 2 figures.

ASSOCIATION: Moskovskiy avtozavod imeni Likhacheva (Moscow Automobile Plant imeni Likhachev)

Card 2/2

TROITSKAYA, V.A.; MEL'NIKOVA, M.V.; BOL'SHAKOVA, O.V.; ROKITYANSKAYA, D.A.; BULATOVA, G.A.

Fine structure of magnetic storms. Izv. AN SSSR. Fiz. zem. no.6: (MTRA 13:7) 82-86 165.

1. Institut fiziki zemli AN SSSR.

ROKITYANSKAYA, V.V.

Bending on the main basis of surfaces of zero curvature of an elliptic space. Uch.zap.KHGU 115:113-119 '61. (MIRA 17:5)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

49-12-15/16

*Dissertations Defended in the Scientific Council of the Institute of Physics of the Earth, Institute of Physics of the Atmosphere and Institute of Applied Geophysics, Ac.Sc. USSR during the First Semester of 1957, 12, Akad. Nava, SSSR, See. Geofic. 1957, 12, 215 32 -3.

I.I. Rokityanskiy - Induced Polarisation in Ion-conducting
Rocks (Vyzvannaya polyarizatsiya improvodyashchikh porod)
- Candidate dissertation. Opponents: Doctor of Geol.-Min.
Sciences V.N. Dakhov, Doctor of Phys.-Math. Sciences A.G.Tarkhov,
Candidate of Phys.-Math. Sciences D.A. Fridrikhsberg. May 17,
1957.

The author investigated under induced polarisation the physicochemical phenomena taking place in rocks and other non-uniformly
conducting bodies under the effect of an electric current. These
phenomena lead to the generation of secondary e.m.f. which
exist for some time, even after the primary current is switched
off. Study of the nature of the induced polarisation of ionconducting rocks is of great importance in elucidating the
prospecting possibilities of this method, both in field propecting, particularly coring, and also for studying the properties
of transient regions between liquid (water) and solid dielectric
i.e. in elucidating one of the difficult problems of the physics
Card15/21of surfaces. The author has studied the influence on induced

49-12-15/16
Dissertations Defended in the Scientific Council of the Institute of Physics of the Earth, Institute of Physics of the Atmosphere and Institute of Applied Geophysics, Ac. Sc. USSR during the First Semester of 1957.

polarisation of a number of factors: the chemical composition of the pore moisture, the Z-potential, the structure of the specimen and its uniformity. The experiments were effected in quartz sand which was boiled several times in hydrochloric and nitric acids and then washed in distilled water until the resistance of the pore solution did not reach the resistance of the distilled water (2 500 cm). It was found that the chemical composition of the pore moisture influenced the induced polarisation only through the specific resistance and the Z-potential. For an equal specific resistance of the specimens, the induced polarisation will be the larger, the larger the negative Z-potential. In the case of a constant Z-potential, the induced polarisation is proportional to the specific resistance of the specimen, but the speed of the drop does not depend on the specific resistance. In moisture-saturated sands with a re-charged, twin electric layer, the induced polarisation approaches zero and does not depend on the Z-potential. However Cardle/2lin specimens which were not moisture-saturated, but did have a

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Dissertations Defended in the Scientific Council of the Institute of Physics of the Earth, Institute of Physics of the Atmosphere and Institute of Applied Geophysics, Ac.Sc. USSR during the First Semester of 1957.

re-charged, twin, electric layer, the induced polarisation increases sharply with increasing Z-potential. On reducing the humidity, the induced polarisation increases proportionall with the specific resistance of the specimen, but for low humidity contents, this increase slows down, the induced polarisation passes through a maximum and then decreases, although the specific resistance of the specimen continues to increase. The author has proved the existence of a certain dependence of the induced polarisation on the degree of dispersion and thereby he indicated the possibility of applying the method of induced polarisation for coring oil deposits for the purpose of determining the permeability and the specific conductivity of rocks. He also obtained the relation between the speed of fall of the induced polarisation and the degree of dispersion. For sands, the speed of fall is the higher the finer the sand. This result seems to favour the view that when passing an electric current through the specime Card17/21 each sand grain is similar to an electric dipole and the drop

49-12-15/16 Dissertations Defended in the Scientific Council of the Institute of Physics of the Earth, Institute of Physics of the Atmosphere and Institute of Applied Geophysics, Ac.Sc. USSR during the First Semester of 1957.

in the induced polarisation represents the total field of the discharge of these dipoles. The fundamental relations of induced polarisation of ion-conducting rocks were clarified, starting off by taking into consideration the forces acting on the charges of the diffusion part of the twin, electric layer. In the equilibrium state (in the absence of current flow), the only force maintaining the charges of the diffusion layer around the surface is the electro-static attraction from the charges of the fixed layer; therefore, the surface density of the charges of the diffusion layer at each point of the surface equals the density of the charges of the fixed layer. It can be assumed that on applying an external electric field, the surface density of the charges does not change in the fixed layer (or changes much less than in the diffusion layer).

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Dissertations Defended in the Scientific Council of the Institute of Physics of the Earth, Institute of Physics of the Atmosphere and Institute of Applied Geophysics, Ac. Sc. USSR during the First Semester in 1957.

B.I. Parkhomenko - Piezo-electric Effect of Rocks (P'ezoelek-

E.I. Parkhomenko - Flezo-electric situation tricheskiy effekt gornykh porod) - Candidate dissertation.

Opponents: Doctor of Physico-Mathematical Sciences V.F.
Bonchkovskiy, Candidate of Physico-Mathematical Sciences I.S.

Zholudev, Candidate of Technical Sciences B.A. Bazhenov.

July 21, 1957.

For many centuries, the descriptions of earthquakes mentioned the light effects, but the physical nature of the latter the light effects, but the development of investigations was not known. With the development of investigations in electricity and improved instrumentation, the electrical character of these phenomena was established. Only individu statements of hypothetic character exist on the sources of the changes of the electrical field of the Earth. In view of the changes of the electrical field of the Earth. In view of the importance of this problem of a possible relation betwee the electro-magnetic and the seismic fields, the author stude electro-magnetic and the seismic fields, the author stude electrical effects in rocks subjected to mechanical force by means of a dynamic method, a piezo-electric effect was observed in rocks (granite, gneiss, quartzites, etc.) contain the contains of the contain

Dissertations Defended in the Scientific Council of the Institute of Physics of the Earth, Institute of Physics of the Atmosphere and Institute of Applied Geophysics, Ac.Sc. USSR during the First Semester of 1957.

absence of orientation of the quartz grains, no piezo-electri effect was observed. Under laboratory conditions, the existence of the E effect discovered by A.G. Ivanov, was confirm and malso its relation to the presence of a liquid plin rocks. On the basis of investigation of ideal piezothe presence of a liquid phase electric textures of quartz in accordance with the theory of A.V. Shubnikov, it was found that from a single modification of quartz, it is possible to form piezo-electric textures of the first kind, type o and o:2 and of two shapes of quartz, it is possible to form a texture of the type o.m. The possibility was elucidated of ordinating quartz-containing rocks to piezo-electric textures of the type .m and also to the symmetry class 3:2. A technique was developed of the qualitative measurement of the piezo-electric moduli of rocks in the case of longitudinal and transverse effects, by the static method applying an electrometer. It is shown that in rock specimens of volumes of the order of 10 cm³, the piezocard20/21 electric effect can be observed owing to the non-compensated

Dissertations Defended in the Scientific Council of the Institute of Physics of the Earth, Institute of Physics of the Atmosphere and Institute of Applied Geophysics, Ac.Sc. USSR during the First Semester of 1957.

effect of the individual quartz grains. On the basis of experimental data, the coefficient of orientation of the quartz grains was calculated with some degree of approximation in various rocks by means of the formula of Zheludev. Model tests on granite blocks enabled establishment (in addition to an elastic wave) of two types of electro-magnetic oscillations. Oscillations of one type precede the arrival of the elastic wave and coincide with the incident of emission, oscillations of the other type are recorded at about the same time as the elastic wave. The oscillations of the first type are caused by the piezo effect of the granite block near the emmitter of the ultra-sound, whilst oscillations of the same granite near to the receiver. The results of these experiments can be applied in studying the physics of earthquakes and also for developing new methods of electric prospecting.

AVAILABLE: Library of Congress. Card 21/21

49 - 2 - 8/13

AUTHOR:

Rokityanskiy, I.I.

TITLE:

Laboratory investigations of induced polarisation in sedimentary rock. (Laboratornoye izucheniye vyzvannoy

polyarizatsii osadochnykh porod).

PERIODICAL:

Izvestiya Akademii Nauk, Seriya Geofizicheskaya, 1957.

No.2, pp. 217-227. (U.S.S.R.)

ABSTRACT:

If there are electron conducting inclusions in the rock, the generated polarisation is attributed to electrode processes. This paper describes the results of an experimental investigation of induced polarisation of rocks which do not contain conductors of the first type, i.e. rocks, one component of which is dielectric, and the other an ionic conductor. The experiments were carried out in quartz sands which were purified by boiling in hydrochloric and nitric acids and subsequently

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washed in distilled water to remove residual salts.

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49 - 2 - 8/13

TITLE:

Laboratory investigations of induced polarisation in sedimentary rock. (Laboratornoye izucheniye vyzvannoy polyarizatsii osadochnykh porod).

The apparatus for measuring the induced polarisation is shown in Fig.1, p.218./ In addition, the induced polarisation, the specific resistance and the potential were also measured. The dependences of induced polarization on the chemical composition of pore moisture, specific resistance, the \$\infty\$ - potential, moisture and the degree of dispersion were determined. Furthermore, the time characteristics were measured. The metering cell is shown diagrammatically in Fig.2, p.218; para.1 discusses the results relating to the dependence of induced polarisation on the chemical composition and specific resistance; para.2 discusses the dependence of induced polarisation on the \$\infty\$ - potential; para.3 discusses the dependence of induced polarisation on the moisture content, and para.4 the dependence of induced polarisation on the structure of the specimen. Para.5 deals with the influence of charging time.

Card 2/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

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49 - 2 - 8/13

TITLE:

Laboratory investigations of induced polarisation in sedimentary rock. (Laboratornoye izucheniye vyzvannoy polyarizatsii osadochnykh porod).

The author concludes that the decrease caused by polarisation consists of exponential spectra.

The text includes 4 diagrams, 12 graphs and 2 tables. All the 5 references cited are Slavic.

ASSOCIATION: Academy of Sciences of the USSR, Institute of Terrestrial Physics (Akademiya Nauk SSSR, Institut fiziki zemli).

PRESENTED BY:

SUBMITTED:

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Card 3/3

ROKITYANSKIY, I. I.

49-3-15/16

AUTHOR:

Kirillov, F. A.

TITLE:

Conference of junior research workers, engineers and aspirants of the Institute of the Physics of the Earth, Ac. Sc., U.S.S.R. (Konferentsiya mladshikh nauchnykh sotrudnikov, inzhenerov i aspirantov Instituta Fiziki

Zemli AN SSSR).

PERIODICAL:

"Izvestiya Akademii Nauk, Seriya Geofizicheskaya" (Bulletin of the Ac. Sc., Geophysics Series), 1957,

No. 3, pp. 411-415 (U.S.S.R.)

ABSTRACT:

The conference was held on December 24-26, 1956, 21 papers were read relating to work completed in 1955 and 1956. In this report the contents of the individual papers are briefly summarised. I.I. Rokityanskiy read a p paper on the study of the induced polarisation in ion conducting rocks.

ROKITYANSKY, I.I., ZYBIN, K.YU. SHEPETNOV, R.N., ROKITYANSKAYA, D.A., and TROITSKAYA, V.A.,

"The Fine Structure of Magnetic Storms with Respect to Pulsations with Periods Less than 15 sec,"

report presented at the Intl. Conference on Cosmic Rays and Earth Storms, Kyoto, Japan, 4-15 Sept 1961.

ROKITYANSKY, I.I., ZYEIN, K.YU., SHEPETNOV, R.V., ROKITYANSKAYA, D.A., and TROITSKAYA, V.A.,

"The Connection of Pc and Pt Pulsations with Magnetic Storms," report presented at the Intl. Conference on Cosmic Rays and Earth Storms, Kyoto, Japan, 4-15 Sept 1961.

29729

8/169/61/000/008/050/053 A006/A101

3,9410 (1487)

AUTHORS:

Card 1/2

Okhatsimskaya, M.V., Rastrusin, Yu.B., Rokityanskiy, I.I., Shchep-

etnov, R.V.

TITLE: Regularities in the excitation of short-period oscillations in middle latitudes

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 8, 1961, 42, abstract 86280 (V sb. "Korotkoperiod. kolebaniya elektromagnitn. polya Zemli, no. 3", Moscow, AN SSSR, 1961, 17 - 22, English summary)

TEXT: The study of short-period oscillations of telluric currents during the IGY was carried out at stations of the Institut fiziki Zemli AN SSSR (Institute of Physics of the Earth, AS USSR) (Borok, Alma-Ata, Petropavlovsk-Kamchatskiy, and Alushta). These investigations made it possible to detect a number of common regularities of short-period oscillations in middle latitudes. There are two basically different types of short-period oscillation: namely, stable oscillations, pc, with $T \sim (15 \div 40)$ sec and train-type oscillations, pt, with $T \sim (50 \div 90)$ sec. The maximum number of pc cases occurs at local midday, and pt at local midnight, independent of the longitude of the station. The

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3,9110 (1191,1492)

Rokityanskiy, I. I.

AUTHOR: Adapting geomagnetic methods to anisotropic and in-

TITLE: homogeneous masses

Akademiya nauk. Izvestiya. Seriya geofizicheskaya,

PERIODICAL: no. 11, 1961, 1607-1613

The E and H horizontal components of a disturbance to the earth's magnetic field at a point above a layer which is neither isotropic nor homogeneous are related in a manner which may be represented by

$$E_{u} = \int_{1} [Hn]_{u} = \int_{1}^{H} v$$

$$E_{v} = \int_{2} [Hn]_{v} = -\int_{2}^{H} u$$
(3)

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Regularities in the excitation ..

diurnal run of po is asymmetric and has a broad maximum around midday. The increase of pc amplitudes occurs 1.5 times more quickly than their damping. A somewhat increased pc number was observed in summer as compared to the winter. The diurnal pt run has a sharp maximum around local midnight. Seasonal variability was not observed for pt. Amplitudes of short-period oscillations in middle latitudes are low, being fractions of a unity and a few mv/km for pc, and several mv/km for pt. There are indications of a tendency for increased short-period oscillation amplitudes at seaside stations. Previous concepts on the dependence of pc and pt on universal time were explained as follows: a comparison was made of the diurnal run of short-period oscillations on stations located close in the longitude; a comparison was made of unclear maxima obtained from a small number of cases. This did not permit the detection of the longitudinal effect of maximum shift even for substantially remote stations; moreover, there are oscillations, in both modes, correlated with universal time, which occur seldom but are very intensive. K. Zybin

[Abstracter's note: Complete translation]

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30280

Adapting geomagnetic methods ...

S/049/61/000/011/001/005 D239/D303

where S_1 , S_2 are the principal terms of a tensor S_{xy} , n is a unit vector in the direction of the vertical, and u, v are orthogonal axes of anisotropy. It is the author's object to show how a quantity λ , called the coefficient of anisotropy, and defined by $\lambda = \frac{S_2}{S_1}$; may be determined from observations. The directions of the u, v system are, of course, unknown. The relations required are deduced to be

$$tg\Delta\varphi = \frac{(1-\lambda)\cdot ctg(\varphi_H^r - \alpha)}{1+\lambda ctg^2(\varphi_H^r - \alpha)}$$
(12)

and

$$\Delta \varphi = a\varphi_h + b \tag{13}$$

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Adapting geomagnetic methods ...

where $\Delta \varphi$ is 90° minus the angle between E and H, φ' H is the angle between H and an arbitrary set of orthogonal axes used for the measurements (which in practice are usually the geographic directions), Wis the angle between the u, v and x, y systems and a and b are related by b = $-\infty$ a. A set of observations of $\Delta \varphi$ and φ _H can be used in conjunction with a previously plotted family of curves for various values of λ to determine the local value of λ . A discussion of errors is given and the results of observations at the Alushta geomagnetic station are used to illustrate application of the method. The errors in λ may be between 15 to 60 percent. M. N. Berdichevskiy is thanked for criticizing the draft. There are 3 tables, 4 figures and 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: W. D. Parkinson, Directions of rapid geomagnetic fluctuations. Geophys. J. Roy. Astron. Soc., 2, no. 1, 1959.

Akademiya nauk SSSR. Institut fiziki zemli (Academy of Sciences of the USSR. Institute of Physics of the ASSOCIATION:

Earth) Card 3/4

Adapting & comagnetic methods ...

SUBMITTED: April 7, 1961

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Card 4/4

ROK	C Stack/Vos	Akademiya nauk SSSR. Ferhduvedonstvennyy kemitet po provedentyu Merdemaredonogo egofirachestokogo goofa. Ili razdel programmy MDGs.	Kortkoperiodichenkiye kolebaniya elektromagnitnogo polyn zemli Kortkoperiodichenkiye kolebanika Elektromagnetio (Short-Teriod Oscillations of the Enth's Elektromagnetio Plaid) Moosow, Edwey AN SSSR, 1951, 118 p. 1,800 copies parinted (Serios: Tex: Sbornik etstey, No. 3)	Besp. Eds.: A. O. Kalauhnikov, Doctor of Physics and Mathematics; and V. A. Troitskays, Candidate of Physics and Mathematics; Ed.: Y: P. Shchukins; Tech. Ed.: Ye. V. Makuni.	FURPOSE: This publication is intended for geophysicists. Copressions: This collection of articles, published by the Inter- Coverants into collection of the USS Academy of Statements. In-	dreadust articles des util various (BL. Fortació, Elgantic, director articles des util various (BL. Fortació, Elgantic, director articles des util various (BL. Fortació, Elgantic, gastedy, etc.) oscillations of the terrostrial electromagnetic field, particularly in the arctic region. No personalities are acutioned, Bride English abstracts accompany each article.	Majorates follows: **Ablk OF CONTENTS: Afanas'yeve, V. I. Short-Period Oscillations of the Earth's	Magnetic Field Kebuladze, W. V. Some Regularities of the Disturbed Field of 11	Constainskays, N. V., Tu. B. Restrusin, J. I. Rokitysnoidy, and N. V. Shchepoponov, Regularities in the Exiterion of short-beried Oscillations in Middle latitudes.	teriod Chaillations of the Electro- to Observations in Irantsk)	Dubrovakity V. U. Aspert (According to Observations in Ashemances) and Their Regularities (According to Observations and Chain Oscillations and gratisky V. A. Steady Oscillations and Chain Oscillations and gratisky According to the Chain Oscillations and Chain Oscil	In the Arcta and Paristanty Results of Earth Current Obser- 62 wastons in files bay	Miditing, M. Proliminary Results of Earth Current Observations at the Barentsburg Station (Spitsbergen)	Zubareva, E. P., O. I. Korobkova, M. M. Mikitina, and V. A. Profeskaja. Gignite Pullsations in the Soviet Arctic During 75 the 1935-1956 Period	Barsukov, O. M., and E. Tu. Zpbin. Monperpendicularity of the Tectors of the E and M Variations of the Earth's Mectromag- ment Phald	Troitskups, V. A., and M. V. Mal'nikova. Characteristic Intervals of Osullistical Deformating forer a Period (10.) Sec), in the Earth's Electromagnette Field, and Their Rulation- ship With Phenomena in the Upper Atmosphere	Bollshakova, O. V., K. Yu. Zybin, and N. F. Malliageva. Some Regularities in the Behavior of the Vertical Component of Inter-Period Oscillations of the Geomegnetic Field in a Stable	

22130

\$/049/61/000/002/008/012 D242/D301

9,9700 3.9400

AUTHOR:

Rokityanskiy, I. I.

TITLE:

Scattering of conductivity in ground systems and rocks

at low frequencies

PERIODICAL: Akademiya nauk SSSR. Seriya geofizicheskaya.

Izvestiya, no. 2, 1961, 251-254

When measuring the resistance between two ground systems by alternating current it appears that the interelectrode resistances depend on the frequency, as may be seen from Fig. 1 in which Nos. 1 - 3 denote the periods October 1957, July 1958 and which Nos. 1 - 3 denote the periods October 1957, July 1958 and December 1959. This relationship may be naturally assumed to be due to induced polarization; A. N. Frumkin, V. C. Bagotskiy, Z. A. Iofa, B. N. Kabanov (Ref. 1: Kinetika elektrodnykh protsessov (Kinetics of Flootrode Processes) Ind. MCU 1952) and V. A. Komanov (Kinetics of Flootrode Processes) Ind. MCU 1952) and V. A. Komanov (Kinetics of Flootrode Processes) Ind. MCU 1952) and V. A. Komanov (Kinetics of Flootrode Processes) Ind. MCU 1952) and V. A. Komanov (Kinetics of Flootrode Processes) Ind. MCU 1952) and V. A. Komanov (Kinetics of Flootrode Processes) Ind. MCU 1952) and V. A. Komanov (Kinetics of Flootrode Processes) Ind. MCU 1953) and V. A. Komanov (Kinetics of Flootrode Processes) Ind. McU 1953) and V. A. Komanov (Kinetics of Flootrode Processes) Ind. MCU 1953) and V. A. Komanov (Kinetics of Flootrode Processes) Ind. MCU 1953) and V. A. Komanov (Kinetics of Flootrode Processes) Ind. MCU 1953) and V. A. Komanov (Kinetics of Flootrode Processes) Ind. MCU 1953) and V. A. Komanov (Kinetics of Flootrode Processes of Flootrode P (Kinetics of Electrode Processes) Izd. MGU, 1952) abd V. A. Komarov (Ref. 2: 0 prirode elektricheskikh poley vyzvannoy polyarizatsii i vozmozhnostyakh ikh uspolizovaniya pri poiskakh rudnykh mestorozhdeniy (Nature of the Electric Fields of Induced Polarization and their Use when Prospecting for Ore Desposits) Vestn. LGU,

Card 1/12

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22430

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Scattering of conductivity ...

ser. geol. i geogr., vyp. 1, No. 6, 1957) have shown that for a sufficiently long passage of direct current the potential jump Φ_{∞} at the electrode is established by:

 $\Phi_{\infty} = k \frac{J}{S}, \qquad (1)$

where s is the electrode area, J the current strength and k a low polarization coefficient. According to Frumkin (Ref. 1: Op cit) the electrode polarization results from the polarization concentration, overvoltage, electro-chemical reactions, the charge and discharge of the double electric layer and the formation of poorly-conducting layers, etc. Each process yields its own potential jump ϕ and expression (1) becomes:

 $\sum \varphi_{\infty i} = \sum k_i \frac{J}{S} , \qquad (1a)$

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Scattering of conductivity...

where $\sum \varphi_{\infty i} = \Phi$; $\sum k_i = k$; and k_i is the polarization coefficient for each process; the generalized formula (1) is naturally correct for each separate process:

$$\psi_{\infty} = k \frac{J}{S} . \tag{1b}$$

In one elementary process the electrode potential depends on the time of current passage which approximates to φ_{∞} , where φ is conthe potential jump (d φ /dt) at the electrode is assumed to be proportional to the difference between the potential jump for an instantaneous value of the polarizing current and that at a given

$$\frac{d\varphi}{dt} = \frac{1}{\tau} (\varphi_{\infty} - \varphi), \qquad (2)$$

where $\frac{1}{\tau}$ is the proportionality coefficient, the expression: Card 3/12

22h30 S/049/61/000/002/008/012 D242/D301

Scattering of conductivity...

$$\frac{d\varphi}{dt} + \frac{1}{\tau} \varphi - \frac{k}{\tau S} J. \tag{3}$$

is obtained on inserting (1b) in (2). The right term represents the magnitude of the polarizing current whose variation law must be specified, and equation (3) gives the exponential dependence of the potential jump on time, τ being the constant time of this drop. The actual drop of induced polarization is not exponential, but the exponent may be approximately represented in the form of a sum since several processes take place at the polarized electrode. In the case of the passage of a sinusoidal alternating current $J = J_0 \sin \omega t$, then

$$\frac{d\varphi}{dt} + \frac{1}{\tau} \varphi = \frac{kJ_0 \sin \omega t}{\tau S} \sin \omega t, \qquad (4)$$

$$\varphi = \frac{J_0 k}{S} \frac{1}{\sqrt{1 + \omega^2 \tau^4}} \sin (\omega t - \arctan \omega \tau). \qquad (5)$$

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·S/049/61/000/002/008/012 D242/D301

Scattering of conductivity...

whence the polarized potential of the electrode lags in phase behind the polarizing current by angle α - arctg ω τ , and the electrode resistance is expressed as:

$$Z_{\rm en} = \frac{k/S}{1 + \omega^2 \tau^2} (1 - j\omega \tau).$$
 (6)

Since the actual induced polarization consists of several elementary processes, the electrode may be considered as a complex of resistances connected in series:

$$Z_{0n} = \sum_{i=1}^{m} \frac{k_i / S}{1 + \omega^2 \tau_i^2} (1 - j\omega \tau_i).$$
 (7)

It is now possible to calculate the resistance of a circuit with two earths. Assuming that there are no other reactive resistances in the circuit besides the electrodes and that Ro is the general resistance of the circuit, the expression:

$$Z = R_0 + \sum_{i=1}^{n} \frac{k_i / S}{1 + \omega^2 \tau_i^2} - i\omega \sum_{i=1}^{n} \frac{\tau_i k_i / S}{1 + \omega^2 \tau_i^2}.$$
 (8)

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Scattering of conductivity...

may be derived, where n is the number of components which takes into account the polarization at both electrodes. The phase difference W between the voltage and current in the circuit and the absolute value of the interelectrode resistance in relation to the frequency may then be determined from

$$tg \psi = -\frac{\omega \sum_{i} \frac{\dot{\tau}_{i} k_{i} / S}{1 + \omega^{2} \tau_{i}^{2}}}{R_{0} + \sum_{i} \frac{k_{i} / S}{1 + \omega^{2} \tau_{i}^{2}}}.$$
(9)

$$R = |Z| = \sqrt{\left(R_0 + \sum_{i=1}^{n} \frac{k_i / S}{1 + \omega^2 \tau_i^2}\right)^2 + \left(\omega \sum_{i=1}^{n} \frac{\tau_i k_i / S}{1 + \omega^2 \tau_i^2}\right)^2}.$$
 (10)

when n = 2 and 3; formula (10) is used for interpreting the experimentally obtained relationship of the interelectrode resistances to the frequency. Expression (9) with n = 2 is used to

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22**130** S/049/61/000/002/008/012 D242/D301

Scattering of conductivity...

evaluate the possible phase difference between the current and voltage in a circuit with two earths; the parameters of both electrodes are assumed to be similar: $k_1/S = k_2/S = k/S$, $\tau_1 = \tau_2 = \tau$.

INTERNATIONAL PROTOCOLOGICALISMENT

The maximum phase difference is observed when

$$\omega = \frac{1}{\tau} \sqrt{\frac{R_o + 2k/S}{R_o}}$$

$$tg \psi_{max} = \frac{k/S}{\sqrt{R_o(R_o + 2k/S)}}$$
(11)

In some cases the phase difference between the current and voltage is small, but it is high in others and has to be taken into account. As Frumkin (Ref. 1: Op cit) and Komarov (Ref. 2: Op cit) have already noted, the coefficient k depends on and is inversely proportional to the polarizing current. Turning to the flow of alternating current through a polarized rock, coefficient k which Card 7/12

22l₁30 S/049/61/000/002/008/012 D242/D301

Scattering of conductivity...

accordance with (15), a polarized medium may be considered as regards its behavior in a variable field to be equivalent to a medium with the complex conductivity

Use of expression (17) may answer the question of the influence of volume polarization on the alternating-current flow through rocks. Substituting (17) with n-1 in the Maxwell equation for a homogeneous medium and disregarding the displacement currents, the wave number k-k+iS is found for the harmonic field where

$$k = \sqrt{\frac{2\pi\mu\gamma\omega}{c^2}} \sqrt{\frac{\eta\omega\tau}{1+\omega^2\tau^2} \left[\sqrt{1+\left(\frac{1+\omega^2\tau^2-\eta}{\eta\omega\tau}\right)^2} + 1 \right]}.$$
 (18)

$$S = \sqrt{\frac{2\pi\mu\gamma\omega}{c^2}} \sqrt{\frac{\eta\omega\tau}{1+\omega^2\tau^2}} \left[\sqrt{1+\left(\frac{1+\omega^2\tau^2-\eta}{\eta\omega\tau}\right)^2-1} \right]. \tag{19}$$

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22\g0 S/049/61/000/002/008/012 D242/D301

Scattering of conductivity ...

The induced polarization evidently decreases the absorption coefficient S at all frequencies which may be explained as follows. The abosrption coefficient signifies the conversion of electric energy into thermal energy, so a decrease in S implies a partial preservation of electric energy by the induced polarization. Part of the energy of the primary electric field is certainly expended, but it does not pass into heat and is converted into energy of the secondary electric field as a result of electro-chemical processes during the discharge of induced polarization. There are 2 figures and 3 Soviet-bloc references.

ASSOCIATION: Akademiya nauk SSSR, Institut fiziki zemli (Academy

of Sciences USSR, Institute of Physics of the Earth)

SUBMITTED: April 25, 1960

Card 11/12

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S/203/62/002/006/018/020 A160/A101

AUTHOR:

Rokityanskiy, I. I.

CHARLE BEEN CONTROL BETTER THE VEHICLE OF THE VEHIC

TITLE:

Medium-latitude Lpc during geomagnetic storms

PERIODICAL:

ICAL: Geomagnetizm i aeronomiya, v. 2, no. 6, 1962, 1147 - 1148

TEXT: The article deals with an investigation of short oscillations observed during geomagnetic storms and recorded by Soviet medium-latitude stations of terrestrial currents in July 1957 - July 1960 with a scan of 90 mm/hour. The investigation revealed that oscillations are observed during some storms, which are not encountered at medium-latitude stations during quite intervals, but are rather characteristic for polar stations. Two main types of oscillations may be noted. 1) Intensive polar-disturbance oscillations with a period of 5 - 12 sec. 2) Long stable oscillations called Lpc by Jacobs. It was noted that, in case intensive short polar-disturbance oscillations arise during a storm, these oscillations are followed by Lpc in a number of cases. Such storms are henceforth called short-periodical storms. From July 1957 to July 1960, the mentioned regularity was most clearly observed during six storms which took place on

Card 1/2

Medium-latitude Lpc during geomagnetic storms

S/203/62/002/006/018/020 A160/A101

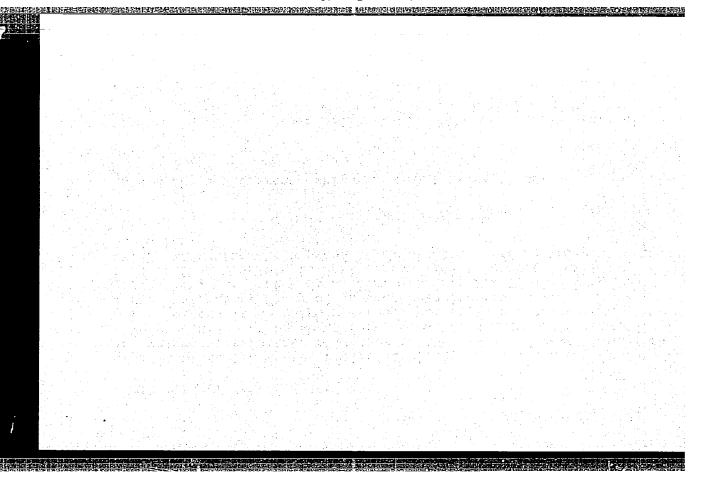
11 November 1958, 12 May 1959, 15 and 17 July 1959, 31 March 1960 and 30 April 1960. The following conclusions are drawn: 1) There are short-periodical storms that use to start suddenly, and such that begin gradually. 2) All clearly-expressed short-periodical storms occur during the summer half-year with a maximum number of appearances from May to August. 3) The diurnal variation of the Lpc oscillations during the storms at the Petropavlovsk Station has a daily maximum by local time. 4) If the Lpc are simultaneously observed at a few stations, their periods must not necessarily coincide as in the case of common Lpc. The described penetration of polar disturbances and the Lpc into medium latitudes proves that, during some geomagnetic storms, the agents (causing these phenomena) descend from high to medium latitudes. There is 1 figure.

ASSOCIATION: Geofizicheskaya stantsiya "Borok" Instituta fiziki Zemli AN SSSR (Geophysical Station "Borok" of the Institute of Physics of the Earth, AS USSR)

SUBMITTED: April 24, 1962

Card 2/2

ROKITYANSKIY, I.I. Curve of the deep magnetotelluric probing based on data from the Borok Observatory. Isv. AN SSSR. Ser.geofiz. no.5:679-680 Ky '62. 1. Institut fiziki Zemli AN SSSR. (Barth currents)



ROKITYANSKIY, I.I.

Interferences observed in the recording of fast fluctuations of terrestrial currents. Izv. AN SSSR. Ser. geofiz. no.7:943-945 Jl '62. (MIRA 15:7)

l. Institut fiziki Zemli, AN SSSR. (Earth currents)

22430

S/049/61/000/002/008/012 D242/D301

Scattering of conductivity..

is determined by the ratio: $\eta = -\frac{E^{VP}}{E}$, (12)

represents the polarization characteristic during the passage of a direct current, where E is the established field strength, EVD is the limiting field strength of induced polarization, attainable with a sufficiently long application of the field E, and EVP is the instantaneous, irregular field of induced polarization. Then, as with formula (2)

$$\frac{dE^{VP}}{dt} - \frac{1}{V} (E^{VP}_{\infty} - E^{VP}). \tag{13}$$

Inserting (12) in (13) and considering the case of the imposition of the harmonic field E = $E_0 \sin \omega$ t

$$E^{VP} = -\frac{\eta E}{1 + \omega^1 \tau^2} (1 - i\omega \tau). \tag{14}$$

from which it is apparent that the field of induced polarization

Card 8/12

L 13128-63 EWT(1)/BDS AFFTC/ESD-3 GW S/049/63/000/004/003/005 AUTHOR: Rokityanskiy, I.I. Distribution of micropulsations of RS in relation TITLE: to the amplitude Akademiya nauk SSSR. Izvestiya. Seriya geofizicheskaya, PERIODICAL: no. 4, 1963, 590-595 The results of the recording of the amplitudes of RS with a highly sensitive registration (0.3 millivolt/millimeter/kilometer) of earth currents are studied for obtaining a mathematical expression of the distribution for a number of instances of RS in relation to the amplitude. The produced expression (Poisson's distribution) is used for the determination of the average amplitude of the micropulsations of RS registered for a set-up with a relatively low sensitivity. In this work, the obtained relationships of the frequency of the appearance of RS vs. amplitude are compared with Maxwell, Rayleigh, and Poisson theoretical distributions. Card 1/2

L 13128-63

\$/049/63/000/004/003/005

Distribution of micropulsations...

For Poisson distribution, it is:

$$\varphi = \frac{x}{\alpha} e^{-\frac{x}{\alpha}}$$
, $\propto = 0.596 x_m$ (4)

where α -- parameter of distribution, x_m -- median value of the amplitude. Detailed experimental data are presented in tables and histogramms for amplitude and time intervals. The work includes the analysis of data for one year from the Alushta Geophysical Station. There are 3 tables, 3 figures, and 4 references. The most recent English language reference is Bolshakova, O.V., Zybin, K.Y., On the frequency of occurence and amplitude spectrum of the geomagnetic field pulsations, Ann. Geophys. 17, no. 4, 1961

ASSOCIATION: Akademiya nauk SSSR, Institut fiziki Zemli (Academy of Sciences of USSR, Institute of Earth Physics)

SUBMITTED: October 15, 1962

Card 2/2

ACCESSION NR: AT4032217

\$/3089/63/000/005/0093/0097

AUTHOR: Rokityanskiy, I. I.

TITLE: Results of observations of telluric currents at the Geophysical Station Alushta during the IGY

SOURCE: AN UkrSSR. Mezhduvedomstvenny*y geofizicheskiy komitet. Geofizika i astronomiya; informatsionny*y byulleten!, no. 5, 1963, 93-97

TOPIC TAGS: telluric current, gradient, polarization, current vector, periodic variation, distinct extremeness, local time, amplitude, bay type variation, equinox, shore effect, geological structure

ABSTRACT: The average value of the gradient of telluric currents at Alushta Geophysical Station on the Crimean Peninsula during the IGY was 14 mv/km. The polarization of the current vector was nearly linear in both main (N-S and E-W) directions. The most probable length of pc variations at Alushta was 18-20 sec. No extreme pc variation was observed, although variations lasting 10-15 sec had a maximum occurrence in morning hours. Periodic variations of 15-to 20 and 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

ACCESSION NR: AT4032217

sec had a maximum with a small superposed minimum on it at noon. PT variations reached a maximum at 11 p.ma local time. PT variations lasted generally from 50—70 sec. An average voltage of bay-type variation amplitude was 25 mv/km. Bay-type variations occurred usually in the equinoctial periods and their diurnal maximum took place about 12 p.m. local time. The shore effect exists at Alushta. Under the influence of the geological structure of the Crimean Peninsua and the Black Sea, the electric vector E becomes elliptically polarized with the major axis directed northwest to southeast; the axial ratio is 3:1. The polarization of the magnetic vector is slightly changed. Orig. art. has: 5 figures and 5 formulas.

ASSOCIATION: Institut fisiki Zemli, Akademii nauk SSSR (Institute of Physics of the Earth, Academy of Sciences SSSR)

SUBMITTED: 00

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: AS

NO REP SOVE 004

OTHER: 001

Cont 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014451

ROKHLENKO, M.A.

PHASE I BOOK EXPLOITATION

SOV/3785

Smolenskiy, Boris Lipovich, Engineer, and Mikhail Abramovich Rokhlenko, Engineer

Kompleksnaya modernizatsiya tekarno-revol'vernykh stankov tipa 1336 (Overall Modernization of the Type 1336 Turret Lathe) Leningrad, 1959. 13 p. 6,500 copies printed. (Series: Obmen peredovym opytom. Seriya: Modernizatsiya i remont oborudovaniya, vyp. 4)

Sponsoring Agencies: Leningrad. Dom nauchno-technicheskoy propagandy;
Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR.

Ed.: Ye. F. Posternyak, Engineer; Tech. Ed.: V.L. Gvirts.

PURPOSE: This pemphlet is intended for fixture makers, foremen and lathe operators.

COVERAGE: The authors describe attachments and devices for modernizing machine tools. No personalities are mentioned. There are 5 references, all Soviet.

Card 1/2

Card 2/2

VK/rn/gmj 7-13-60

Country : USSR

Category ; Soil Science. Fretilizers. Organic Ferti-

lizers.

J

Abs Jour : RZhBiol., No 6, 1959, No 24663

Author : Znenatov, A. ?.; Rokhtanen, L. S.

Inst: Concerning the Economic Effectiveness of the

Utilization of Peat as a Fertilizer.

Orig Pub : Udobreniye i urozhay, 1958, No. 8, 44-46

Abstract : No abstract.

Card : 1/1

57

ROL TYANSKIY, I.I.

Dispersion of the conductivity of ground systems and rocks in case of a low-frequency current. Izv. AN SSSR. Ser. geofiz. no. 2:251-254 F '61. (FIRA 14:2)

1. Institut fiziki Zemli AN SSSR. (Electric prospecting)

SOV/49-59-7-15/22

AUTHOR: Rokityanskiy, I. I.

TITLE: On the Nature of the Induced Polarization of the Ion-Conductive Rocks

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1959, Nr 7, pp 1055-1060 (USSR)

ABSTRACT: This is a continuation of the article under the same title in this journal, 1957, Nr 2. The explanation of the relationships described there is attempted. Fig 3 illustrates the assumed double electric field where the positive charge of the diffusive layer is represented by dots, the density of which decreases with distance. The negative charge of the double electric layer is shown by the inner circle composed of minus signs; the short arrows represent the field of the double electric layer. The vector of the external field and its components E_N and $E_{\mathbf{t}}$ (drawn here on a larger scale) are smaller than those of the double electric layer. On the side of the rock particle facing the positive electrode (left side, Fig 3) the normal component of the external field coincides with the field of the double layer ($\zeta < 0$) . Therefore, a force exerted on the charge of the diffusive layer becomes greater; Card 1/2

507/49-59-7-15/22

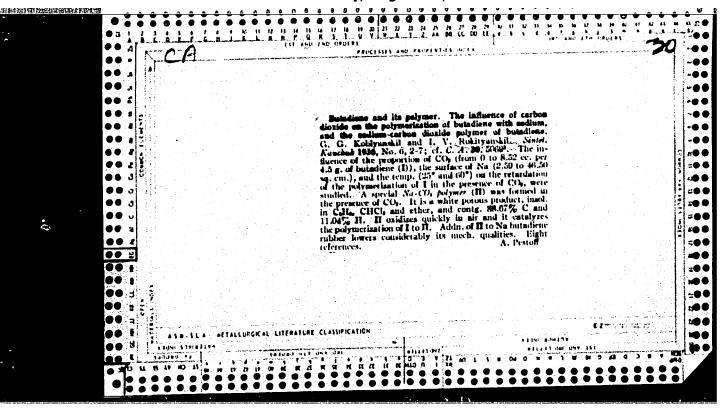
On the Nature of the Induced Polarization of the Ion-Conductive Rocks

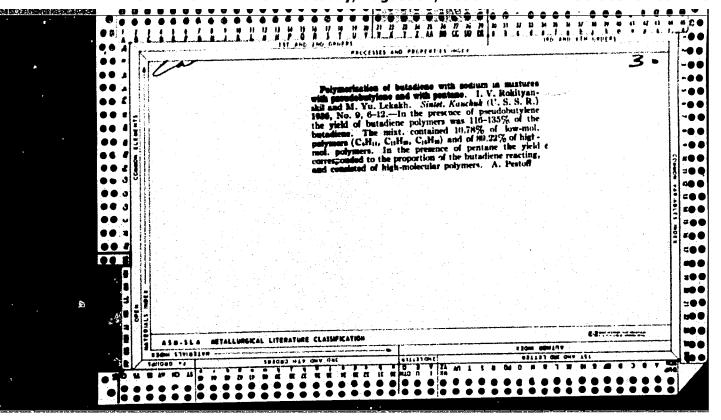
also the density of the positive charges of the diffusing layer increases on this side. The other side (right, Fig 3) has a smaller density of the positive charges. Thus, the polarization, i.e. a deviation from the equilibrium, occurs as shown in Fig 2. The theoretical calculations of the above phenomena are described by Eqs (1)-(10) and the numerical example given on p 1060. Thanks are given to A. N. Frumkin, A. I. Zaborovskiy and D. A. Fridrikhsberg for advice. There are 3 figures and 8 Soviet references.

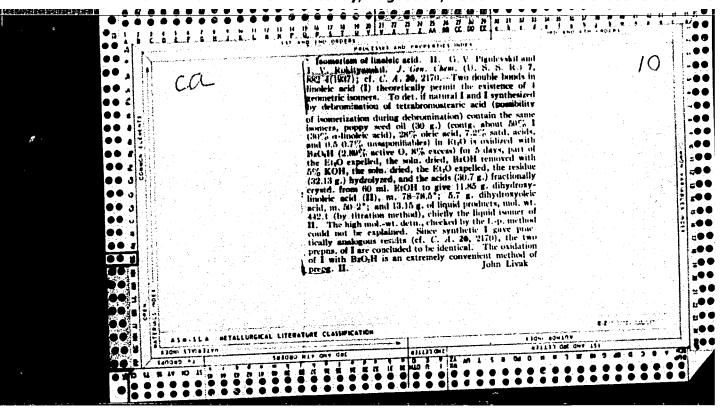
ASSOCIATION: Akademiya nauk SSSR, Institut fiziki Zemli (Academy of Sciences USSR, Institute of Physics of the Earth)

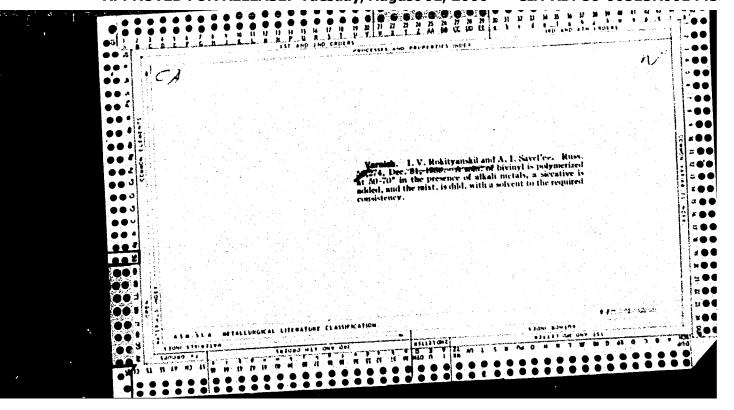
SUBMITTED: May 25, 1957.

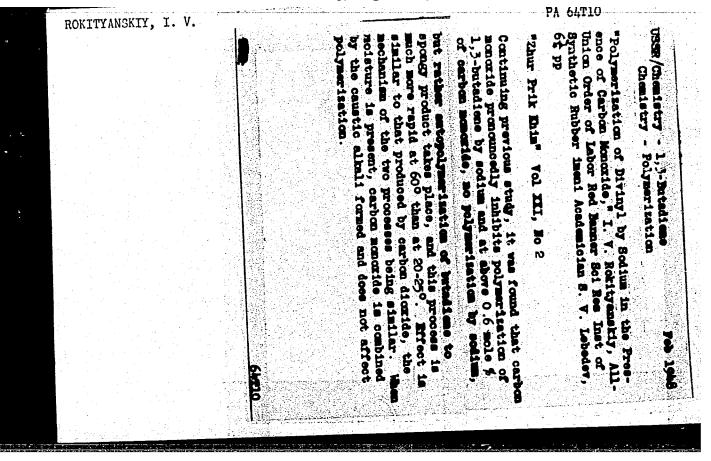
Card 2/2











Marey, A. I., Rokityanskiy, I. V. and Samoletova, V.V. SOV/138-59-2-3/24 AUTHORS:

Influence of the Polymerization Temperature of Butadiene TITLE: with Alkali Metals on the Structure and Frost Resistance

of Polymers (Vliyaniye temperatury polimerizatsii butadiyena shchelochnymi metallami na stroyeniye i

morozostoykost' polimerov)

PERIODICAL: Kauchuk i rezina, 1959, Nr 2, pp 9-12 (USSR)

ABSTRACT: Butadiene polymers have an irregular micro- and macro-This is also characteristic for polybutadiene and polymers obtained during polymerization in the presence of alkali metals and their organic compounds. The authors carried out experiments on the relation between conditions of alkali polymerization, the structure and the properties of the polymers, and investigated the dependence of the glass temperature of butadiene polymers on the content of vinyl groups whilst changing the polymerization temperature from 0 to 120°C in the presence of alkali metals (lithium, sodium and potassium). Data on the structural analysis of polymers

by ozonization were published by A. I. Yakubchik et al. Card 1/4 (Ref 6). The content of butadiene chains with vinyl

Influence of the Polymerization Temperature of Butadiene with Alkali Metals on the Structure and Frost Resistance of Polymers

groups in the polymer was defined according to the quantity of formic acid and formaldehyde in the ozonolysis products. Data in Table 1 indicate that an increase in the polymerization temperature in the given limits causes a substantial linear decrease in the content of vinyl groups in the polymers. This is particularly marked when butadiene is polymerized in the presence of lithium, and is observed to a much lesser degree when potassium is used. The difference in the reaction rates of the addition of butadiene molecules in the 1.2 and 1.4 position at a given temperature is defined by the various values of activation energies of these processes, and formulae are given for calculating the reaction rates and the activation energies. Fig 1: the dependence of the logarithm of the ratio of concentration of the 1.4 and 1.2 bonds on the polymerization temperature. It was found that the glass temperature of the butadiene polymer is a linear function of the concentration of Card 2/4 vinyl groups. Glass temperatures for a number of

Influence of the Polymerization Temperature of Butadiene with Alkali Metals on the Structure and Frost Resistance of Polymers

butadiene polymers containing a varying number of vinyl groups are given in Table 2. Formulae for calculating the concentration of butadiene chains in the polymer (S_v) are given, and it was found that the maximum concentration S_m equals 2, when S_v equals 1, which corresponds to polymers in which all the monomer molecules are added in the 1.2 position. The linear dependence between the glass temperature of the polymer Ts and the concentration of the vinyl groups (Sm) in the polymer chain is shown in a graph (Fig 2) and it is suggested that the content of vinyl groups can be defined according to the glass temperature. This was obtained at a temperature of 80°C and above are not completely soluble which confirms a spatial or branched structure at sufficiently high plasticity, separated pure insoluble part of the polymer had the

Card 3/4 same glass temperature as the soluble fraction. Therefore,

SOV/138-59-2-3/24 Influence of the Polymerization Temperature of Butadiene with Alkali Metals on the Structure and Frost Resistance of Polymers

the glass temperature of the butadiene polymers is only defined by the content of vinyl groups and does not depend on their branched structure.

There are 2 figures, 2 tables and 12 references, 8 of which are Soviet and 4 English.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scittific Essessal Institute for Synthetic Rubber imeni S.V.Lebed

Card 4/4

MARRY, A.I.; ROKITYANSKIY, I.V.; SAMOLETOVA, V.V.

Effect of the temperature of the polymerization of butadiene in the presence of alkali metals on the structure and frost-resisting properties of polymers. Kauch. i res. 18 no.219-12 F 159. (MIRA 12:4)

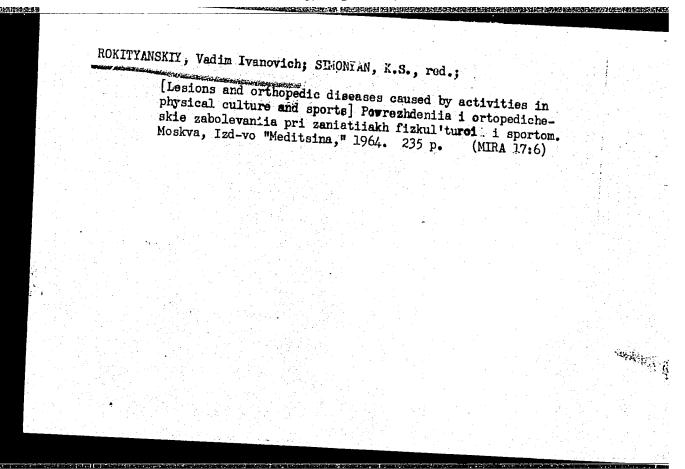
1. Vsesoyusnyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka imeni S.V. Lebedeva.
(Butadiene) (Polymerisation)

ROKITYANSKIY, I.I.

Shore effect in the variation of the earth's electromagnetic field. Izv. AN SSSR. Ser. geofiz. no.12:1814-1822 D *63.

(MIRA 17:1)

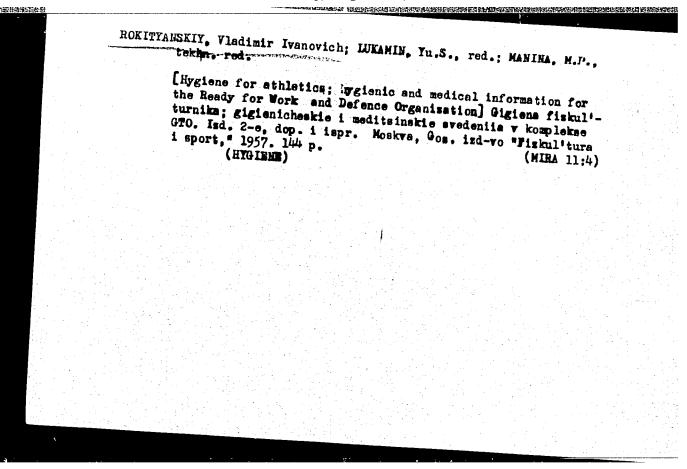
1. Institut fiziki Zemli AN SSSR.



ROKITYANSKIY, V.I., starshiy nauchnyy sotrudnik

Ultrasonic therapy in arthrosis deformans of the knee joint. Ortop., travm. i protez. 25 no.1:3-7 Ja '64. (MIRA 17:9)

1. Iz Sverdlovskogo instituta travmatologii i ortopedii (dir. - kand. med. nauk Z.P. Lubegina).



[Ultrasonics and their therapeutic use] Ultrasvuk i ego lochebnoe primenenie. Moskva, Medgis, 1958. 242 p. (MIRA 12:3) (ULTRASONIC WAVES—THERAPEUTIC USE)

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ROKIT AMSKIY, V.I., kand. med. nauk.

Ultrasonics in combined therapy of injuries of the bursoligamental apparatus of the knee joint. Ortop. travm. protes., Moskva 18 no.6: 37-42 N-D 158. (MIRA 12:1.)

1. Is TSentral'nogo instituta travmatologii i ortopedii (dir. deystvitel'nyy chlen AMN SSSR prof. M.N. Priorov) i fizioterapevticheskogo otdeleniya (zav. - prof. Ye. I. Pasynkov) l-y Gradskoy bol'nitsy
g. Moskvy (Glavnyy vrach - zaslush. vrach RSFSR Chernyshev).

(ENER, wds. & inj.

burso-ligamental appar., ultrasonics in combined ther. (h (ULTRASONICS, ther. use

knee, inj. of burso-ligamental appar., in combined ther. (Rus))

ROKITYANSKIY, V.I. (Sverdlovsk)

Studies on the mechanism of therapeutic effects of ultrasonic oscillations in experimental joint injuries. Pat. fizicl. i eksp. terap. 6 no.4:79-80 J1-Ag 62. (MIRA 17:8)

1. Iz Sverdlovskogo nauchno-issledovatel*skogo institut travmatologii i ortopedii Ministerstva zdravockhraneniya RSFSR.

ORZHESHKOVSKIY, V.V., starshiy nauchnyy sotrudnik; ROKITYANSKIY, V.I., starshiy nauchnyy sotrudnik

Compound use of ultrasound and sulfide (Matesata) thereasy in

Compound use of ultrasound and sulfide (Matsesta) therapy in Bekhterev's disease. Ortop., travm. i protez. 26 no. 10: 73-74 0 '65. (MIRA 18:12)

14. 在中国的政治中,他们是他们的政治的,他们们的政治的是他们的对抗,他们是他们的人,他们是一个人,他们们们们的人,他们是他们们的人,他们们们们们们们们们们的

1. Iz Sochinskogo instituta kurortologii i fizioterapii (dir. - zasluzhenny) vrach RSFSR N.Ye. Romanov). Adres avtorov: Sochi, Kurortnyy prospekt, dom 110, Institut kurortologii i fizioterapii. Submitted Jan. 11, 1965.

KLEPIKOV, N.P.; ROKITYANSKIY, V.R.; RUDOY, Yu.G.; SAYEVSKIY, F.V.; FEDOROV, V.V.; YUDIN, V.A.

Threshold singularities in the total cross section of pion scattering by protons. Zhur.eksp.i teor.fiz. 41 no.3:937-938 S '61. (MIRA 14:10)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta.

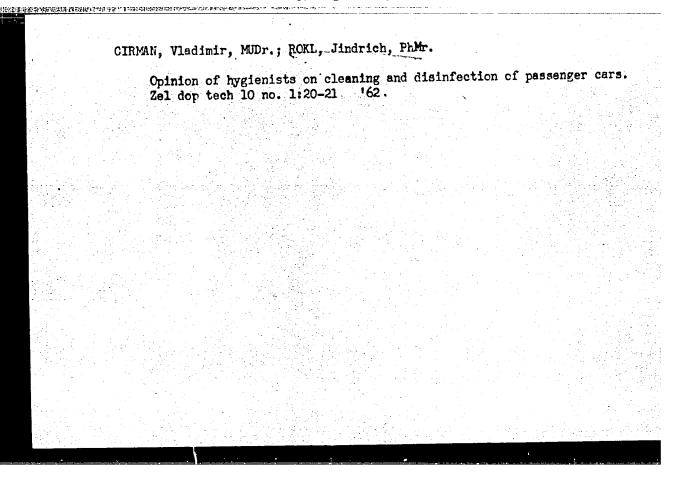
(Mesons-Scattering) (Protons)

KRYLOV, N.N., kand. tekhn. nauk, dotsent; ROKITYANSKIY, V.R., assistent Curvature of surfaces of gear wheels with two bending parameters. Trudy MIIT no.190:180-187 165. (MIRA 1818)

DESYATNIK, E.M., inzh., red.; YELISEYEVA, Ye.Ye., inzh., red.; MULASHOV, A.G., inzh., red.; GUSEV, V.I., inzh., red.; MALAKHOV, A.Ye., inzh., red.; PETROV, G.P., inzh., red.; FILIMONOV, S.Ye., inzh., red.; ROKKO, M.A., inzh., red.; ANDREYEV, L.N., inzh., red.; TURIANSKIY, M.A., inzh., red.; ZERELKOV, A.D., inzh., red.

> [Collections Nos. 10, 20, 31, and 42 of standard district uniform estimates for construction worl] Sborniki No. 10, 20, 31 i 42 edinykh raionnykh edinichnykh rastsenok na stroitel'nye raboty. Moskva, Stroiizdat, 1965. (MIRA 18:10)

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Evaluation of tuber saleus morbidity following BCG vaccination. Tuberkulesa 15 no.1:5-20 Ja-Mr '63.

1. Decji dispanzer opstine Zwezdaru, Beograd - Upravnik: dr. Radojka Pavicevic.

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(STATISTICS)

I-l

ROROSSOWSKI

POLAND/Chemical Technology - Chemical Products and Teir Application. Industrial Organic Synthesis

Abs Jour

: Ref Zhur - Khimiya, No 1, 1958, 2158

Author

Rokossowski, Z.

Inst Title

The Putting in Operation of a Phthalic Anhydride Plant.

Orig Pub

: Przem. chem., 1956, 12, No 8, 417-421

Abstract

: An analysis of the putting in operation of the first industrial unit for the production of phthalic anhydride, in the Polish People's Republic. Processes of catalytic oxidation of naphthalene, distillation of the crude product, and safety engineering problems are considered.

Card 1/1

ROKOTYAN, Ya.S.

Investigating the standard blooming mill 1000 type designed by the Central Machinery Design Office of the Central Scientific Research Institute of Technology and Machinery Manufacture. [Trudy] TSHIIT-MASH 73:158-178 155. (MIRA 11:3)

(Rolling mills)

ROLLA, S.

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p. 248 (Drogownictwo. Vol. 12, no. 10 Oct. 1957. Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

USSR/General Biology - General Histology.

B-3

Abs Jour

: Ref Zhur - Biologiya, No 1, 1957, 180.

Author

V.I. Rokityanskiy

Inst

Title

: Experimental Therapy of the Extension of the Knee Joints by some Physical Factors. Report 3. The Effect of Repeated Novocainization of the Peripheral Nerves on the Processes of Regeneration (Without the Action of

Physical Factors).

Orig Pub

: Sb. Nauch, rabot Rizhsk, In-ta, 1954, 3, 165-175.

Abst

: Following the extension of both knee joints, the animal was repeatedly (7 to 9 times in a period of 20 days) novocainized in both hips at a level of the upper third part areas (the author calls it novocainization of the peripheral nerves). As a result, an inconsiderably exhibited improvement in the blood supply to most of the joint tissues, a stimulation of the formation of young

Card 1/2

USSR/General Biology - General Histology.

B-3

Abs Jour

: Ref Zhur - Biologiya, No 1, 1957, 180.

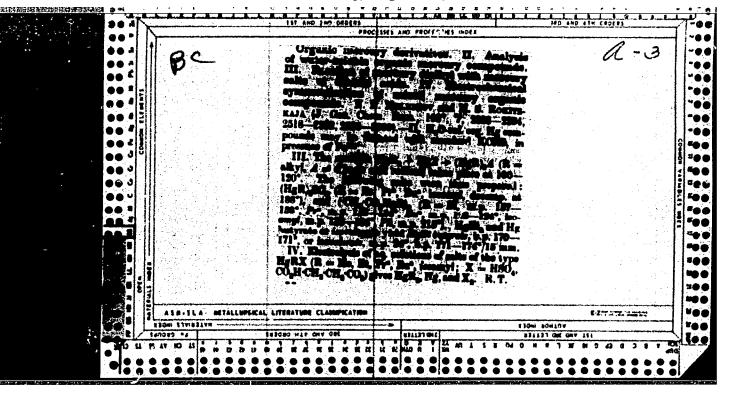
connective tissue cells, and the hastening of the resolution of the foci of hemorrhaging was noted. The negative effect of this procedure is edema of the joint capsule frequently accompanied by necrosis of separate sections of the joint's tissues.

Card 2/2

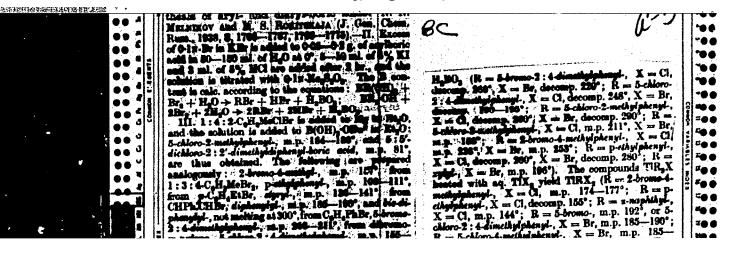
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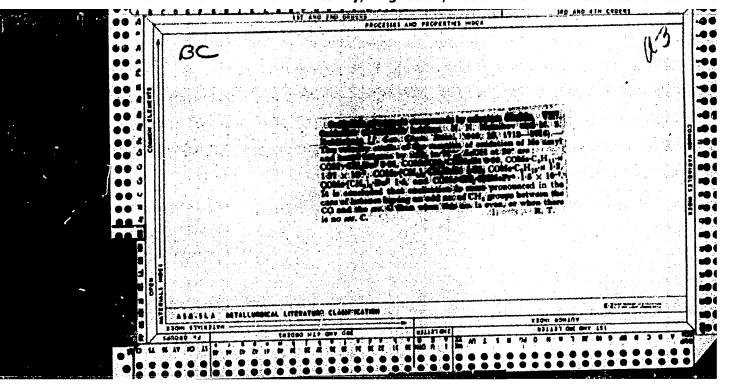
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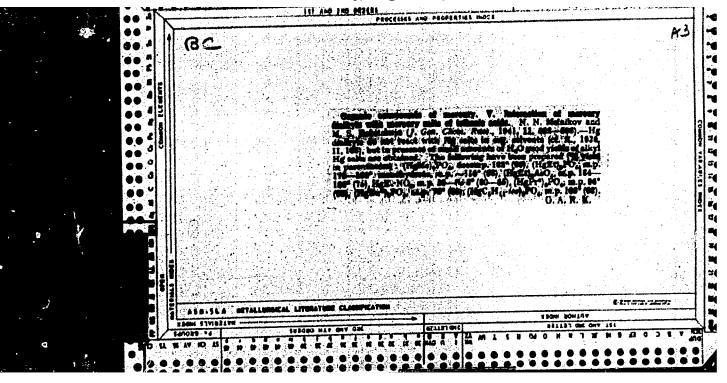
ROKITZKAJA, M. S. N. N. MELNIKOV, CR, 1941, 31, 123-124

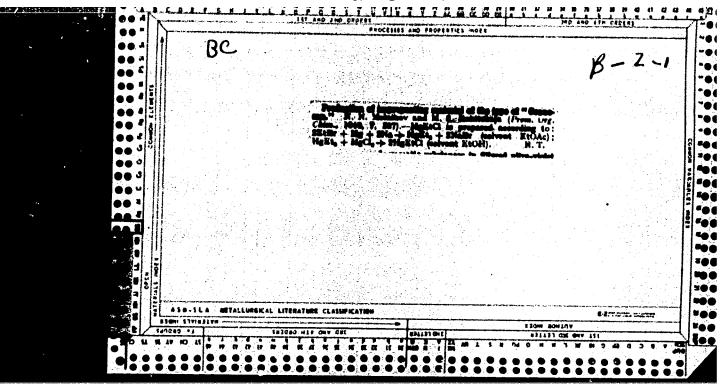


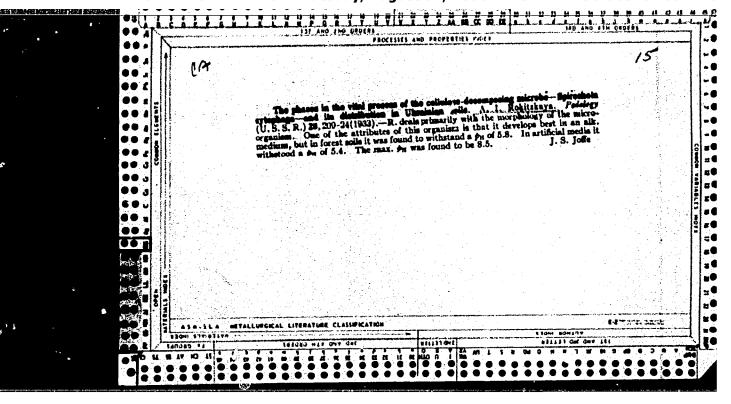
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